

MATE130066	光电技术与器件	学分：3	周学时：3
	Optoelectronic Technology and Devices	总学时：54	
预修课程：高等数学、大学物理			
修读对象：功能材料专业本科生专业必修课程			

中文课程简介（150 字以内）

光电技术与器件是功能材料专业的一门专业必修课，要求学生具有《高等数学》、《大学物理》等课程方面的基础。该课程的任务是较系统地讲授常见光电器件、系统和技术的基本原理和应用，为学生今后从事光电功能材料等的研究开发打下基础。主要内容包括光源、光的传播、光束的调制、光电探测及应用等。

英文课程简介

The course of Optoelectronic Technology is a required course for the undergraduates in function material. It is demanded that the students to choose this course have the fundamental knowledge in Higher Mathematics, College Physics etc. The fundamental principles of optoelectronic devices and instruments used usually as well as applications are taught in methodical ways in this course, so that the students can obtain necessary optoelectronic fundamental knowledge to engage in the development of optoelectronic function materials in the future. The main contents of this course include optical sources, optical propagation, modulation techniques and devices of laser beam, light detection and applications of optoelectronic technology.